

Argonne National Laboratory (Argonne) is again offering a training course entitled "Facility Decommissioning". A registration fee of \$1195.00 is required. Background information, a course description and registration form are available at <http://www.dd.anl.gov/ddtraining/>. Applicants are highly encouraged to register electronically. Early registration is highly recommended due to the limited class size.

Training Course Location See website for details

Purpose of the Course

The purpose of the course is to: 1) provide information on the basic steps in the decommissioning process and 2) impart lessons learned from past experience in decommissioning. Elements included in this training course will assist in decision-making, planning, and implementation associated with decommissioning. Moreover, a major objective of this training course is to demonstrate the need for early and complete project planning to achieve safe and cost-effective decommissioning.

Target Audience

Personnel responsible for decommissioning nuclear facilities including large and small facilities. This includes: utility, university, reactor and other operational facility management and staff, waste management staff, procurement officials, regulators, decommissioning technology developers and providers, oversight groups, DOE & DoD staff, radioisotope and radiopharmaceutical research facilities/production facilities, and consulting and engineering firms. **Much of the material is also directly relevant to the decommissioning of any type or size facility.**

Instructors

Members of the Argonne Decommissioning Program staff supplemented with other decommissioning subject matter experts.

Nature of the Course

- γ Background information
 - Objectives and overview of the course
 - U.S. experiences in decommissioning
- γ Regulatory aspects of decommissioning
 - Safety and radiation protection criteria in decommissioning
 - Use of a graded approach for smaller facilities
 - Regulatory requirements and expectations
- γ Responsibilities and functions of the parties involved
 - Licensee
 - Regulatory body
 - Other involved parties
- γ Planning a decommissioning project
 - Facility shutdown/surveillance and maintenance
 - Facility characterization

- Assessment of alternative strategies
- Preliminary and detailed planning
- γ Waste Management
 - Assessment of amounts and characteristics of decommissioning waste
 - Procedures for conditioning, packaging, storage, transport, and disposal
 - Compliance with radioactive waste management standards and disposal site requirements
 - Recycling/reuse of decommissioning materials
 - Waste minimization/pollution prevention
- γ Decontamination
 - Need for and extent of decontamination
 - Chemical and non-chemical decontamination techniques
- γ Dismantling
 - Metal cutting techniques
 - Concrete removal
 - Intact removal of large components
 - Remotely-controlled operations
 - Selection of optimal technique
- γ Financial planning
 - Elements of decommissioning costs
 - Cost estimating guidelines
 - Financing approaches
- γ Environment safety and health issues
 - Environment safety and health
 - Unexpected occurrences
 - Environmental issues (permits)
- γ Management of a decommissioning project
 - Organization and staffing
 - Training
 - Quality assurance/quality control
 - Record-keeping and reporting
 - Security
- γ Completion of a decommissioning project
 - Post-decommissioning survey final reports
 - License termination
- γ Decommissioning of nuclear labs & other facilities
- γ Case studies on decommissioning
- γ Evolving technologies for decommissioning
- γ Technical visit to a facility which is undergoing decommissioning (as location, access and work schedules permit)

Each participant will receive copies of valuable resources for use in understanding the decommissioning process and will also be given a select reading list of other information sources.

Why Argonne

Over the last 25 plus years, the Decommissioning Program of Argonne National Laboratory (Argonne) has successfully decommissioned numerous nuclear and radiological facilities including: four research reactors (a 100 MW BWR prototype, a 5 MW heavy water reactor, a smaller 250 kW biological

irradiation facility and a small 10 kW research reactor), a suite of 61 plutonium glove boxes located in nine research labs, a 60" cyclotron facility, a fuels fabrication facility, and several smaller non-reactor (waste management) radiological facilities. In addition, extensive decontamination work was performed on five hot cells formerly used in the U.S. Navy Proof-of-Breeding program. In addition to the decontamination and dismantling, the CP-5 research reactor facility was selected to serve as a DOE test bed for the evaluation of select technologies to ascertain their value in performing future decommissioning projects. In addition to this work at the Illinois site, the staff also lends support to other DOE and NRC regulated sites in decommissioning. We are also actively involved in international decommissioning activities as well.

Vendor Display/Poster Exhibit Area

During the training course, an area adjacent to the lecture room will be available for exhibits or the display of materials from decommissioning vendors. A poster exhibit area will also be designated for stand-alone displays from other organizations. Vendors will be charged a \$100 fee to cover overhead and set up expenses. All shipping costs are the responsibility of the individual vendor. Space will be allocated on a first-come, first-served basis. The vendor fee can be paid by credit card or check. Visa, MasterCard and American Express credit cards will be accepted.

Samples of decommissioning and related technical publications will also be available in this display area. The area will include materials from various technical and topical publications and membership and subscription materials from professional societies.

Check our web site for further details:

<http://www.dd.anl.gov/ddtraining/>

How to Apply

Applicants are encouraged to register electronically. A course description, registration form, etc., are available at:

<http://www.dd.anl.gov/ddtraining/>

Applicants not having access to the Internet should contact the Training Course Registrar directly - we can fax a registration form to you if you like.

Training Course Registrar

Judy Benigno
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Communications & Public Affairs /
Conference Services
Building 201
9700 South Cass Avenue
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630-252-5586 (phone)
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Training Course Director

Lawrence E. Boing
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Nuclear Engineering Division /
Decommissioning Program
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Registration Fee - \$1195.00

Discount rates available - please check the web site.

The registration fee can be paid by credit card or check. Visa, MasterCard and American Express credit cards can be accepted. Checks should be made payable to Argonne National Laboratory and sent to the registrar at the address above. **The registration fee, or proof of forthcoming payment, must be received prior to the course.**

Deadline for Registration

No deadline for registration has been set. Space will be allocated on a first-come, first-serve basis. Notification of acceptance to the training course will be made at least one week prior to the course.

This training course can also be conducted at other locations. Please contact the Course Director for details.

Address corrections requested

Please forward to a colleague if you are unable to attend

**Larry Boing
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Argonne, IL 60439**

A Training Course on “Facility Decommissioning”

Organized by:



Salt Lake City, UT

October 30 - November 2, 2006

Las Vegas, NV

March 26-29, 2007

<http://www.dd.anl.gov/ddtraining/>

**Check our website for updates
and detailed information on future
training courses**